

**INFORMATION DISCLOSURE STATEMENT**

|           |   |  |
|-----------|---|--|
| Applicant | : | Francis X. Canning   |
| App. No   | : | 09/676,727   |
| Filed     | : | September 29, 2000   |
| For       | : | COMPRESSION AND COMPRESSED<br>INVERSION OF INTERACTION<br>DATA |
| Examiner  | : | Herng Der Day  |
| Art Unit  | : | 2128   |

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application is a PTO/SB/08 Equivalent listing twenty-six (26) references to be considered by the Examiner. Because some of the non U.S. Patent Publications (Nos. 20-26) are of record in one or more applications relied on for an earlier effective filing date or are related to the above-referenced application, including the following, copies thereof are not being submitted herewith.

Application Serial No. 10/354,241, filed January 29, 2003, pending

Application Serial No. 10/619,796, filed July 15, 2003, pending

Application Serial No. 11/417,559, filed May 3, 2006, pending

Application Serial No. 11/417,429, filed May 3, 2006, pending

Please place these references in the file of the above-identified patent application in accordance with 37 C.F.R. § 1.97(i).

This Information Disclosure Statement is being filed before the mailing date of a final action and before the mailing of a Notice of Allowance. This Statement is accompanied by the

**Appl. No.** : 09/676,727  
**Filed** : September 29, 2000


**Docket No.** CANNING.001A  
**Customer No.** 20,995

fees set forth in 37 C.F.R. § 1.17(p). The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 8, 2007

By:   
Lee W. Henderson Ph.D.  
Registration No. 41,830  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404

4113614  
080807

|  |                      |                    |
|--|----------------------|--------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Application No.      | 09/676,727         |
|  | Filing Date          | September 29, 2000 |
|  | First Named Inventor | Francis X. Canning |
|  | Art Unit             | 2128               |
| (Multiple sheets used when necessary)                    | Examiner             | Hereng Der Day     |
| SHEET 1 OF 2   | Attorney Docket No.  | CANNING.001A       |

| U.S. PATENT DOCUMENTS |          |   |                                |                               |  |
|-----------------------|----------|---|--------------------------------|-------------------------------|--|
| Examiner Initials     | Cite No. | Document Number<br>Number - Kind Code (if known)<br>Example: 1,234,567 B1 | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       | 1        | 6,182,270   | 01-30-2001                     | Feldmann et al.               |  |
|                       | 2        | 6,353,801   | 03-05-2002                     | Sercu et al.                  |  |
|                       | 3        | 6,675,137   | 01-06-2004                     | Toprac et al.                 |  |
|                       | 4        | 2004-0010400  | 01-15-2004                     | Canning                       |  |
|                       | 5        | 2004-0078174 A1   | 04-22-2004                     | Canning                       |  |
|                       | 6        | 2006-0265200 A1   | 11-23-2006                     | Canning                       |  |
|                       | 7        | 2006-0195306 A1   | 08-31-2006                     | Canning                       |  |

| NON PATENT LITERATURE DOCUMENTS |          |  |                |
|---------------------------------|----------|--|----------------|
| Examiner Initials               | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.                                  | T <sup>1</sup> |
|                                 | 8        | BAHARAV, ZACHI, "Impedance Matrix Compression (IMC) Using Iteratively Selected Wavelet Basis," IEEE Transactions on Antennas and Propagation, Volume 46, Number 2, February 2, 1998, pages 226-233.  |                |
|                                 | 9        | BANK, RANDOLPH E., "Marching Algorithms and Block Gaussian Elimination," Sparse Matrix Computations, 1976, pages 293-307.  |                |
|                                 | 10       | BUNCH, JAMES R., "Block Methods for Solving Sparse Linear Systems," Sparse Matrix Computations, 1976, pages 39-58.   |                |
|                                 | 11       | BUNCH, JAMES R., "Partitioning, Tearing and Modification of Sparse Linear Systems," Journal of Mathematical Analysis and Applications 48, 1974, pages 574-593.   |                |
|                                 | 12       | CANNING, FRANCIS X., "Impedance Matrix Localization Produces a Sparse Moment Method Matrix," IEEE Antennas and Propagation Society International Symposium, 1990. AP-S. 'Merging Technologies for the 90's.' Digest, May 1990, pages 60-63   |                |
|                                 | 13       | COIFMAN ET AL., "Faster Single-Stage Multipole Method for the Wave Equation," Conference Proceedings; 10 <sup>th</sup> Annual Review of Progress in Applied Computational Electromagnetics; at the Doubletree Hotel & Convention Center, Monterey, CA, Volume 1, March 21-26, 1994, pages 19-24. |                |
|                                 | 14       | CONROY ET AL., "Data-Parallel Sparse LU Factorization," Siam J. Sci. Comput., Volume 19, Number 2, March 1998, pages 584-604.  |                |
|                                 | 15       | GEORGE, ALAN, "On Block Elimination for Sparse Linear Systems," Siam J. Numer. Anal., Volume 11, Number 3, June 1974, pages 585-603.   |                |
|                                 | 16       | HIGHAM, NICHOLAS J., "Block LU Factorization," Accuracy and Stability of Numerical Algorithms, Siam, 1996, pages 245-259.  |                |
|                                 | 17       | NABORS ET AL., "FastCap: A Multipole Accelerated 3-D Capacitance Extraction Program," IEEE Transactions on Computer Aided Design, Volume 10, Number 11, November 1991, pages 1447-1459   |                |
|                                 | 18       | SAAD ET AL., "Bilutn: A Domain-Based Multilevel Block Ilut Preconditioner for General Sparse Matrices," Siam J. Matrix Anal. Appl., Volume 21, Number 1, 1999, pages 279-299.  |                |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| <b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

|  |                      |                    |
|--|----------------------|--------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Application No.      | 09/676,727         |
|  | Filing Date          | September 29, 2000 |
|  | First Named Inventor | Francis X. Canning |
|  | Art Unit             | 2128               |
| (Multiple sheets used when necessary)                    | Examiner             | Herng Der Day      |
| SHEET 2 OF 2   | Attorney Docket No.  | CANNING.001A       |

| NON PATENT LITERATURE DOCUMENTS |             |   |                |
|---------------------------------|-------------|---|----------------|
| Examiner<br>Initials            | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>1</sup> |
|                                 | 19          | YALAMOV ET AL., "On the Stability of a Partitioning Algorithm for Tridiagonal Systems," Siam J. Matrix Anal. Appl., Volume 20, Number 1, 1998, pages 159-181.   |                |
|                                 | 20          | Office Action dated June 28, 2006 from Related Application No. 10/354,241 (CANNING.001CP1)  |                |
|                                 | 21          | Office Action dated February 26, 2007 from Related Application No. 10/354,241 (CANNING.001CP1)  |                |
|                                 | 22          | Advisory Action dated May 11, 2007 from Related Application No. 10/354,241 (CANNING.001CP1)   |                |
|                                 | 23          | Office Action dated July 3, 2006 from Related Application No. 10/619,796 (CANNING.001CP2)   |                |
|                                 | 24          | Office Action dated March 26, 2007 from Related Application No. 10/619,796 (CANNING.001CP2)   |                |
|                                 | 25          | Advisory Action dated June 15, 2007 from Related Application No. 10/619,796 (CANNING.001CP2)  |                |
|                                 | 26          | Office Action dated May 16, 2007 from Related Application No. 11/417,429 (CANNING.001DV2)   |                |

4113548  
080807

|   |                 |
|---|-----------------|
| Examiner Signature  | Date Considered |
| <p><b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> |                 |

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.